

CELL EXCHANGE #406

OCTOBER 1, 2018

Cells	1621-1624
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The results for Cell Exchange #406 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Tables 11 - 14 for each sample and individual serological results for each sample are

listed in Table 15. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Cell 1621. The reported consensus type for this sample from a Filipino donor is A*11:01(A11)-B*13:01(B13)-B*56:04(B56)-C*01:02(Cw1)-C*04:06(Cw4). Likely associations present in this cell are A*11:01-B*56:04-C*01:02 and A*11:01-B*13:01-C*04:06, with respective HF=0.00059 and 0.00075.

This sample was previously examined as cell 1532 (2014) and cell 1475 (2012). In this present retyping, A*11:01, B*13:01, B*56:04, C*01:02, and C*04:06 were all assigned in complete consensus. A*11:01:01:01, B*13:01:01, and C*01:02:01 were each assigned by 4 labs. A11 (93%), B13 (100%), and B56 (79%) were assigned by serology.

Cell 1622. The reported consensus type for this sample from Chinese donor is A*30:01(A30)-A*68:01(A68)-B*13:02(B13)-B*35:01(B35)-C*06:02(Cw6)-C*15:09. One likely associations present in this cell is B*13:02-C*06:02, observed in Asians, with HF=0.02274. Interestingly, the other likely association present in this cell, B*35:01-C*15:09, is observed exclusively in Hispanics, with HF=0.00051. C*15:09 was examined one other time in the Cell Exchange, in cell 1205, from a Hispanic donor.

A*30:01, A*68:01, B*13:02, B*35:01, and C*06:02 were each assigned in complete consensus, with 5 labs assigning A*30:01:01 and A*68:01:02 and 4 labs assigning B*13:02:01, B*35:01:01, and C*06:02:01:01. C*15:09 was assigned by 92%. Good agreement was also achieved among serology labs, as A30 (100%), A68 (86%), B13 (100%), and B35 (93%) were reported.

Cell 1623. The reported consensus type for this sample from an Asian donor is A*24:02(A24)-A*24:07-B*38:02(B38)-B*51:01(B51)-C*07:02(Cw7)-C*14:02. The likely associations present in this cell are A*24:07-B*38:02-C*07:02 and A*24:02-B*51:01, and C*14:02, with respective HF=0.00085 and 0.01180, in Asians.

Two subtypes of A*24 were reported in this cell, A*24:02 (100%) and A*24:07 (100%). A*24:07:01 was assigned by 5 labs. B*38:02 and B*51:01 were reported as the B-locus types, with 4 labs assigning B*38:02:01 and 4 labs assigning B*51:01:01. C*07:02 (100%) and C*14:02 (100%) were the reported C-locus types, with 3 labs assigning C*07:02:01 and C*14:02:01. A24 (100%), B38 (92%), and B51 (100%) were well assigned by serology.

Cell 1624. The reported consensus type for this sample from a Chinese donor is A*11:01(A11)-A*24:02(A24)-B*46:01(B46)-B*54:01(B54)-C*01:02(Cw1). Likely associations present in this cell may be A*11:01-B*54:01-C*01:02 and A*24:02-B*46:01-C*01:02, with respective HF= 0.00646 and 0.01009, in Asians.

A*11:01, A*24:02, B*46:01, B*54:01, and C*01:02 were each assigned by 100% of labs reporting at high resolution. A*11:01:01:01, A*24:02:01:01, and C*01:02:01 were each reported by 3 labs. B*46:01:01 and B*54:01:01 were reported by 4 labs. A11 (100%), A24 (100%), B46 (92%), and B54 (75%), were the assigned serological types.

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Table 10. Summary of the 406th Cell Exchange (Cell #1621 - 1624)

Serological typing							
(Filipino) Cell 1621		(Chinese) Cell 1622		(Asian) Cell 1623		(Chinese) Cell 1624	
(14 Samples Typed)		(14 Samples Typed)		(12 Samples Typed)		(12 Samples Typed)	
A11	92.9%	A30	100.0%	A24	100.0%	A11	91.7%
A11.1	7.1%		[100.0%]		[100.0%]	A11.1	8.3%
	[100.0%]						[100.0%]
B13	100.0%	A68	85.7%	B38	91.7%	A24	100.0%
		A28	14.3%		[91.7%]		[100.0%]
			[100.0%]				
B56	78.6%	B13	100.0%	B51	100.0%	B46	91.7%
B22	7.1%				[100.0%]		
	[85.7%]	B35	92.9%	Cw7	33.3%	B54	75.0%
Cw1	35.7%					B22	25.0%
		Cw6	42.9%				[100.0%]
Cw4	35.7%		[42.9%]	Bw4	83.3%		
	[35.7%]	Cw15	7.1%			Cw1	41.7%
Bw4	85.7%						
		Bw4	85.7%			Bw6	83.3%
Bw6	85.7%						
		Bw6	85.7%				
Others Found		Others Found		Others Found		Others Found	
B70	7.1%	B62	7.1%	B44	8.3%	Cw3	16.7%
A1	7.1%			Cw1	8.3%	B5	8.3%
B81	7.1%						
Cw6	7.1%						
A36	7.1%						

Table 11. Individual laboratory results for Cell #1621

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*11	*13	*56	*01	*04	*11:01	*11:01	*13:01	*56:04	*01:02	*04:06		
725	*11		*13	*56									SSO	
731	*11		*13	*56	*01	*04	*11:01:01G		*13:01:01G	*56:04	*01:02:01G	*04:06	SSP SSO SBT	
745							*11:01:01:01		*13:01:01	*56:04	*01:02:01	*04:06	SBT NGS	
747	*11	*11	*13	*56	*01	*04	*11:01:01:01	*11:01:01:01	*13:01:01	*56:04	*01:02:01	*04:06	SSP SSO SBT	
762							*11:01:01:01		*13:01:01	*56:04	*01:02:01	*04:06	NGS	
771	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSO SBT	
774	*11		*13	*56	*01	*04								
779	*11	*11	*13	*56	*01	*04			*13:01	*56:04			SSP SSO	
3186	*11	*11	*13	*56	*01	*04							SSO	
3545	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSO SBT	C*01:142 A*11:263
3632	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSP SSO	
3766	*11	*11	*13	*56	NT	NT							SSO	
3808	*11		*13	*56	*01	*04	*11:01	*11:01	*13:01	*56:04			SSP	
4079	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSP SSO NGS	
4251	*11	*11	*13	*56	*01	*04	*11:01:01G	*11:01:01G	*13:01	*56:04	*01:02:01G	*04:06	SSO SBT	
5133							*11:01:01:01		*13:01:01	*56:04	*01:02:01	*04:06	NGS	
5214	*11		*13	*56	*01	*04							RT-PCR	
5462	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSO NGS	
6649	*11		*13	*56									SSO	
8001	*11		*13	*56	*01	*04							SSO	
8043	*11		*13	*56	*01	*04							SSP SSO	
8070							*11:01		*13:01	*56:04	*01:02	*04:06	SBT	

Table 12. Individual laboratory results for Cell #1622

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*30	*68	*13	*35	*06	*15	*30:01	*68:01	*13:02	*35:01	*06:02	*15:04		
725	*30	*68	*13	*35	*06	*15							SSO	
731	*30	*68	*13	*35	*06	*15	*30:01:01	*68:01:02	*13:02	*35:01	*06:02:01G	*15:09	SSP SSO SBT	
745							*30:01:01	*68:01:02	*13:02:01:01	*35:01:01	*06:02:01:01	*15:09	SBT NGS	
747	*30	*68	*13	*35	*06	*15	*30:01:01	*68:01:02:01	*13:02:01	*35:01:01	*06:02:01:01	*15:09	SSP SSO SBT	
762							*30:01:01	*68:01:02:01	*13:02:01:01	*35:01:01	*06:02:01:01	*15:09	NGS	
771	*30	*68	*13	*35	*06	*15	*30:01	*68:01	*13:02	*35:01	*06:02	*15:09	SSO SBT	
774	*30	*68	*13	*35	*06	*15								
779	*30	*68	*13	*35	*06	*15							SSP SSO	
3186	*30	*68	*13	*35	*06	*15							SSO	
3545	*30	*68	*13	*35	*06	*15	*30:01	*68:01	*13:02	*35:01	*06:02	*15:09	SSO SBT	A*68:152 B*35:42 C*06:83 B*35:332 B*35:347
3632	*30	*68	*13	*35	*06	*15	*30:01	*68:01	*13:02	*35:01	*06:02	*15:09	SSP SSO	
3766	*30	*68	*13	*35	NT	NT							SSO	
3808	*30	*68	*13	*35	*06	*15							SSP	
4079	*30	*68	*13	*35	*06	*15	*30:01	*68:01	*13:02	*35:01	*06:02	*15:09	SSP SSO NGS	
4251	*30	*68	*13	*35	*06	*15	*30:01	*68:01P	*13:02	*35:01:01G	*06:02:01G	*15:09	SSO SBT	
5133							*30:01:01	*68:01:02:01	*13:02:01:01	*35:01:01	*06:02:01:01	*15:09	NGS	
5214	*30	*68	*13	*35	*06	*15							RT-PCR	
5462	*30	*68	*13	*35	*06	*15	*30:01	*68:01	*13:02	*35:01	*06:02	*15:09	SSO NGS	
6649	*30	*68	*13	*35									SSO	
8001	*30	*68	*13	*35	*06	*15							SSO	
8043	*30	*68	*13	*35	*06	*15							SSP SSO	
8070							*30:01	*68:01	*13:02	*35:01	*06:02	*15:09	SBT	

Table 13. Individual laboratory results for Cell #1623

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*24	*24	*38	*51	*07	*14	*24:02	*24:07	*38:02	*51:01	*07:02	*14:02		
725	*24		*38	*51	*07	*14							SSO	
731	*24	*24	*38	*51	*07	*14	*24:02:01G	*24:07:01	*38:02:01	*51:01:01	*07:02	*14:02	SSP SSO SBT	
745							*24:02:01:01	*24:07:01	*38:02:01	*51:01:01	*07:02:01	*14:02:01	SBT NGS	
747	NT						NT							
762							*24:02:01:01	*24:07:01	*38:02:01	*51:01:01:01	*07:02:01	*14:02:01	NGS	
771	*24	*24	*38	*51	*07	*14							SSO SBT	
771							*24:02	*24:07	*38:02	*51:01	*07:02	*14:02	SSO SBT	
774	*24	*24	*38	*51	*07	*14								
779	*24	*24	*38	*51	*07	*14	*24:02	*24:07				*14:02	SSP SSO	
3186	*24	*24	*38	*51	*07	*14							SSO	
														A*24:352 A*24:353 B*51:193 C*07:50 C*07:349 C*07:566 C*07:592 C*07:594 C*07:595 C*07:596 B*51:224
3545	*24	*24	*38	*51	*07	*14	*24:02	*24:07	*38:02	*51:01	*07:02	*14:02	SSO SBT	
3632	*24	*24	*38	*51	*07	*14	*24:02	*24:07	*38:02	*51:01	*07:02	*14:02	SSP SSO	
3766	*24	*24	*38	*51	NT	NT						NT	SSO	
3808	*24	*24	*38	*51	*07	*14	*24:02:01G	*24:07:01					SSP	
4079	*24		*38	*51	*07	*14	*24:02	*24:07	*38:02	*51:01	*07:02	*14:02	SSP SSO NGS	
4251	*24	*24	*38	*51	*07	*14	*24:02P	*24:07	*38:02	*51:01P	*07:02:01G	*14:02	SSO SBT	
5133							*24:02:01	*24:07:01	*38:02:01	*51:01:01	*07:02:01	*14:02:01	NGS	
5214	*24		*38	*51	*07	*14							RT-PCR	
5462	*24	*24	*38	*51	*07	*14	*24:02	*24:07	*38:02	*51:01	*07:02	*14:02	SSO NGS	
6649	*24		*38	*51									SSO	
8001	*24		*38	*51	*07	*14							SSO	
8043	*24		*38	*51	*07	*14							SSP SSO	
8070							*24:02	*24:07	*38:02	*51:01	*07:02	*14:02	SBT	

Table 14. Individual laboratory results for Cell #1624

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*24	*46	*54	*01	*01	*11:01	*24:02	*46:01	*54:01	*01:02	*01:02		
725	*11	*24	*46	*54	*01								SSO	
731	*11	*24	*46	*54	*01		*11:01	*24:02	*46:01:01	*54:01:01	*01:02:01G		SSP SSO SBT	
745							*11:01:01:01	*24:02:01:01	*46:01:01	*54:01:01	*01:02:01		SBT NGS	
747	NT						NT							
762							*11:01:01:01	*24:02:01:01	*46:01:01	*54:01:01	*01:02:01		NGS	
771	*11	*24	*46	*54	*01		*11:01	*24:02	*46:01	*54:01	*01:02		SSO SBT	
774	*11	*24	*46	*54	*01									
779	*11	*24	*46	*54	*01								SSP SSO	
3186	*11	*24	*46	*54	*01	*01							SSO	
3545	*11	*24	*46	*54	*01		*11:01	*24:02	*46:01	*54:01	*01:02		SSO SBT	A*24:352 A*24:353 C*01:85 C*01:127 C*01:142 A*11:263
3632	*11	*24	*46	*54	*01		*11:01	*24:02	*46:01	*54:01	*01:02		SSP SSO	
3766	*11	*24	*46	*54	NT	NT							SSO	
3808	*11	*24	*46	*54	*01								SSP	
4079	*11	*24	*46	*54	*01		*11:01	*24:02	*46:01	*54:01	*01:02		SSP SSO NGS	
4251	*11	*24	*46	*54	*01	*01	*11:01:01G	*24:02P	*46:01	*54:01	*01:02:01G	*01:02:01G	SSO SBT	
5133							*11:01:01:01	*24:02:01:01	*46:01:01	*54:01:01	*01:02:01		NGS	
5214	*11	*24	*46	*54	*01								RT-PCR	
5462	*11	*24	*46	*54	*01		*11:01	*24:02	*46:01	*54:01	*01:02		SSO NGS	
6649	*11	*24	*46	*54									SSO	
8001	*11	*24	*46	*54	*01								SSO	
8043	*11	*24	*46	*54	*01								SSP SSO	
8070							*11:01	*24:02	*46:01	*54:01	*01:02		SBT	

Table 15. Individual laboratory results for Cell #1621-1624 by serology

Investigator	Days Old	Cell No 1621 (Filipino)					Cell No 1622 (Chinese)					Cell No 1623 (Asian)					Cell No 1624 (Chinese)																				
		Viab %	A11	B13	B56	Cw1	Cw4	Bw4	Bw6	OTHERS	Viab %	A30	A68	B13	B35	Cw6	Cw15	Bw4	Bw6	OTHERS	Viab %	A24	B38	B51	Cw7	Cw14	Bw4	OTHERS	Viab %	A11	A24	B46	B54	Cw1	Bw6	OTHERS	
Cecka, J. Mic	3	>95	+	+	+			+	+		>95	+	+	+	+			+	+		>95	+	+	+			+		>95	+	+	+	+		+		
Enczmann, J		95	+	+	+						95	+	+	+	+						95	+	+	+					95	+	+	+	+				
Fort, Marylis	3	97	+	+	+			+	+		97	+	+	+	+			+	+		NT								NT								
Hahn, Amy B.		100	+	+	B81			+	+		100	+	+	+	+			+	+		100	+	+	+			+		100	+	+	+	+		+		
Hogan, Patric		50	+	+	+	+	+	+	+		80	+	+	+	+	+			+	+		80	+	+	+	+		+		80	+	+	+	+	+	+	
Hubbell, Char		95	+	+	+			+	+	A36	95	+	+	+	+			+	+		95	+	+	+			+		95	+	+	+	+		+		
Latham, Katy	3	100	+	+	+			+	+		100	+	+	+	+			+	+		100	+	+	+			+		100	+	+	+	+		+		
Loewenthal ,		85	+	+	+	+		+	+		90	+	+	+	+	+			+	+		80	+	+	+	+		+		90	+	+	+	+	+	+	
Permpikul, Ve	7	90	A11.1	+	+			+	+		90	+	+	+	+			+	+		90	+	+	+			+		90	A11.1	+	+	+		+		
Pule, Ziningi		60	+	+	B70		+			Cw6	65	+	+	+	B62	+					70	+	B44	+	+				65	+	+	B5	B22	+		Cw3	
Renac, Virgin	3	95	+	+	B22			+	+		95	+	A28	+	+			+	+		95	+	+	+			+		95	+	+	+	B22		+		
Shai, Isaac	8	94	+	+	+	+	+	+	+	A1	92	+	A28	+	+	+			+	+		94	+	+	+		+	Cw1	92	+	+	+	B22	+	+	Cw3	
Vidan-Jeras,	6	100	+	+	+	+	+	+	+		100	+	+	+	+	+			+	+		100	+	+	+	+		+		100	+	+	+	+	+	+	
Villard, Jean	6	90	+	+	+	+	+	+	+		90	+	+	+	+	+	+																				